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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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09/227,398 01/08/99 LEUNG

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WM01/0424

EXAMINER

MEHRPOUR, N

ART UNIT

PAPER NUMBER

2682

DATE MAILED:

04/24/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

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Office Action Summary

Application No.
09/227,398

Applicant(s)
Kent K. Leung

Examiner
Naghmeh Mehrpour

Group Art Unit
2682



☒ Responsive to communication(s) filed on Jan 8, 1999

☐ This action is **FINAL**.

☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

A shortened statutory period for response to this action is set to expire 3 month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

Disposition of Claims

☒ Claim(s) 1-40 is/are pending in the application.

Of the above, claim(s) _____ is/are withdrawn from consideration.

☐ Claim(s) _____ is/are allowed.

☒ Claim(s) 1-40 is/are rejected.

☐ Claim(s) _____ is/are objected to.

☐ Claims _____ are subject to restriction or election requirement.

Application Papers

☒ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.

☐ The drawing(s) filed on _____ is/are objected to by the Examiner.

☐ The proposed drawing correction, filed on _____ is ☐ approved ☐ disapproved.

☐ The specification is objected to by the Examiner.

☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

☐ All ☐ Some* ☐ None of the CERTIFIED copies of the priority documents have been

☐ received.

☐ received in Application No. (Series Code/Serial Number) _____

☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

*Certified copies not received: _____

☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

☒ Notice of References Cited, PTO-892

☒ Information Disclosure Statement(s), PTO-1449, Paper No(s). 4

☐ Interview Summary, PTO-413

☒ Notice of Draftsperson's Patent Drawing Review, PTO-948

☐ Notice of Informal Patent Application, PTO-152

--- SEE OFFICE ACTION ON THE FOLLOWING PAGES ---

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Information Disclosure Statement

1. The information disclosure statement filed reference listed in the information Disclosure submitted on 09/28/99 have been considered by the examiner (see attached PTO-1449).

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. **Claims 1-40**, are rejected under 35 U.S.C. 103(a) as being unpatentable over the admitted prior art as mentioned on specification on pages 1-5 in view of RFC 2002 Perkins, ED Mobile IP. Regarding **Claims 1, 3, 10, 13, 23, 27, 37, 39**, the admitted prior art teaches a network device which supports mobile IP and is configured to send an accounting request, the accounting request identifying a mobile node, the network device composing: a memory, and a processor coupled to the memory, wherein the network device is adapted for updating a counter associated with the mobile node's activity (Page 3 lines 23-30, Page 4 lines 1-5). The admitted prior art does not specifically mention that the network device adapted for sending the accounting request including the counter to a server adapted for recording accounting information associated with the mobile node. However RFC 2002 Mobile IP teaches that the network device adapted for sending the accounting request including the counter to a server adapted for recording accounting information

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associated with the mobile node (Page 15 lines 1-5). Therefore, it would have been obvious to the ordinary skill in the art at the time the invention was made to provide the above teaching of RFC to the admitted prior art, in order provide the quantity of information sent and received by mobile nodes.

Regarding **Claims 2, 5, 9, 15-17, 20, 25, 29-31, 34**, the admitted prior art teaches a network device received and send packets by the mobile node (Page 3 lines 4-18) . The admitted prior art does not specifically mention that a counter indicates number of packets and number of bytes that received and send to the mobile node. However RFC teaches a counter indicates number of packets and number of bytes that received and send to the mobile node (Page 15 lines 1-5, Page 41 lines 1-20) Therefore, it would have been obvious to the ordinary skill in the art at the time the invention was made to provide the above teaching of RFC to the admitted prior art, in order to keep track of number times that system registers.

Regarding **Claims 4, 26, 28, 38, 40**, the admitted prior art teaches a server that is adapted for sending an accounting reply to the network device in response to the accounting request (Page 3 lines 4-10, lines 25-30). The admitted prior art fails to teach that the accounting reply acknowledging logging of the accounting information pertaining to the mobile node. However when a mobile registers to the Base station the acknowledgment response is a well known feature in the mobile system. Therefore, it would have been obvious to the ordinary skill in the art at the time the invention was made to provide the above teaching to the admitted prior art, in order to let the mobile know that the registration is complete.

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Regarding **Claims 6-7, 14, 18, 32**, the admitted prior art teaches a server wherein the counter indicates a number of registrations that have been accepted (Page 3 lines 26-30).

Regarding **Claims 8, 19, 33**, the admitted prior art teaches a server wherein the counter indicates a total service time for the mobile node (Page 3 lines 27-28).

Regarding **Claims 11, 21, 35**, the admitted prior art teaches a server wherein the network device is a Home Agent or a Foreign Agent (Page 2 lines 2-6).

Regarding **Claims 12, 22, 36**, the admitted prior art fails to teach a server wherein the server is a TACACS + or a RADIUS server. However RFC 2002 Mobile IP publication teaches a server wherein the server is a TACACS + or a RADIUS server (Page 10 lines 7-10). Therefore, it would have been obvious to the ordinary skill in the art at the time the invention was made to provide the above teaching of RFC to the admitted prior art, in order to provide security association for registration authentication.

Regarding **Claim 24**, the admitted prior art teaches a method further including forwarding the data packet to another network device (Page 3 lines 7-12).

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Penners et al. (US Patent Number 5,793,762) disclose system and method for providing packet data and voice services to mobile subscribers

5. **Any responses to this action should be mailed to:**

Art Unit:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 308--6296, (for formal communications intended for entry)

Or:

(703) 308-6306, (for informal or draft communications, please label

“PROPOSED” or “DRAFT”)

Hand-delivered responses should be brought to Crystal Park II. 2121 Crystal Drive, Arlington. Va., sixth Floor (Receptionist).

Any inquiry concerning this communication or earlier communication from the examiner should be directed to Melody Mehrpour whose telephone number is (703) 308-7159. The examiner can normally be reached on Monday through Thursday (first week of bi-week) and Monday through Friday (second week of bi-week) from 6:30 a.m. to 5:00 p.m.

NM

April 18, 2001



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